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Abstract of the Invention

A process for the nonoxidative dehydrogenation of an alkyaromatic feed stream wherein the feed stream is passed through a radial reactor containing nonoxidative dehydrogenation catalysts, wherein the nonoxidative dehydrogenation catalysts are arranged in vertically layered beds within the radial reactor, and wherein the nonoxidative dehydrogenation catalysts include at least a first and a second nonoxidative dehydrogenation catalyst, wherein at least one of the nonoxidative dehydrogenation catalysts has a different performance and/or operating characteristic than at least one of the other nonoxidative dehydrogenation catalysts.

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